

## Page 1 of 1

All amounts are calculated in domestic currency.

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Vendor Name	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Receiv Date/ Receiv Emp	Receiv Qty (PO U/M)	Cost Per Unit/ Receiv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Rejected Qty	Book Amt
Vendor ID	Vendor Name	VU-TWMM001	TW Metals									
PO26070	1			M4130NT0.750W.04 f		10/16/2014	10/15/2014	215.2500	\$2.75	0.0000	0	\$591.94
USD	No			4130 RD Tube .750 x.049W m130619		200.0000	DESJ02		\$591.94	0.0000	0	
	2			71401-45		10/16/2014	10/15/2014	1.0000	\$0.00	0.0000	0	\$0.00
	No			PROCUREMENT QUALITY CLAUSES m130619		1.0000	DESJ02		\$0.00	0.0000	0	
Total Received Quantity:										216.2500		
Total Qty to Inspect (PO U/M):										0.0000		
Total Rejected Quantity:										0.0000		
Total Receipt Value:										\$591.94		
Total Balance Due Quantity:										0.0000		





# PACKING SLIP

ORDER NO.: 12100778

FROM: ROCH

PAGE 1

CUST NUMBER: 1203820    NET WGT: 78.936    REQ.DATE: 10/16/14 EARLY  
SOLD TO: SHIP TO:  
DART AEROSPACE LTD    DART AEROSPACE LTD  
1270 ABERDEEN ST    1270 ABERDEEN ST  
HAWKESBURY ON    HAWKESBURY ON  
CANADA    ONTARIO CANADA    CN K6A 1K7    CN K6A 1K7

SALESPERSON: GLENN SCOTT    SHIP BY: 10/13/14  
TERMS: NET 30 DAYS    VIA: COMMON CARRIER  
F.O.B.: DESTINATION    FREIGHT: PREPAID  
CUST ORD NO.: PO26070    RELEASE NO.:  
RECEIVING PHONE:

LINE	ITEM DESCRIPTION	WIDTH	LENGTH	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
0001	33047 CDS 4130 6736	3/4 X .049	17/24 FT	200.000 FT	215.250 FT	215.250 FT	78.936	9

\*\* 1 TEST REPORTS REQUIRED \*\*

\*\* 1 CERTS REQUIRED \*\*

ECCN: 9A991.d    Export License: NLR

PO:49242602 HT:563093    PC: 9

MLT:GERMANY    MFG:GERMANY

Expiration Date: 0/00/00  
UOM

CUSTOMER QTY:

SLB/CL:1557711

BROKERS KUEHNE AND NAGEL LTD

AREA	TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT
NEWPENN	REDDICRATE	1.000	121.000	4.0000	300.0000	4

1.000    121.000

BY: KK  
RT 000-

UNLOAD TYPE: NONE SPECIFIED

DATE SHIPPED \_\_\_\_\_

DATE FILLED \_\_\_\_\_

**THANK YOU FOR THIS ORDER**TERMS AND CONDITIONS APPLICABLE TO THE SALE  
OF THESE PRODUCTS ARE SET FORTH ON THE  
REVERSE SIDE FOR YOUR CAREFUL REVIEW.





# PACKING SLIP

ORDER NO.: 12100778

FROM: ROCH

PAGE 2

CUST NUMBER: 1203820 NET WGT:

78.936 REQ.DATE: 10/16/14 EARLY

SOLD TO:

SHIP TO:

DART AEROSPACE LTD

DART AEROSPACE LTD

1270 ABERDEEN ST

1270 ABERDEEN ST

HAWKESBURY ON

HAWKESBURY ON

CANADA

CN K6A 1K7

ONTARIO CANADA

CN K6A 1K7

SALESPERSON:

GLENN SCOTT

SHIP BY:

10/13/14

TERMS:

NET 30 DAYS

1 Wright Avenue - Rear

F.O.B.:

DESTINATION

LeRoy

NY 14482

CUST ORD NO.:

PO26070

VIA:

COMMON CARRIER

FREIGHT:

PREPAID

RELEASE NO.:

RECEIVING PHONE:

"TW Metals MSDS data is available on our web site at [www.twmetals.com](http://www.twmetals.com). MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

## "CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk Janice Clark

Date: 10/13/14

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

# THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON THE REVERSE SIDE FOR YOUR CAREFUL REVIEW.




Benteler Steel/Tube GmbH  
Postfach 13 40  
33043 Paderborn  
Deutschland  
Tel.: +49 5254 81-0 Fax: +49 5254 13666

**BENTELER**   
Steel/Tube

**ABNAHMEPRÜFZEUGNIS EN 10204-3.1**  
INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1  
EN 10204:2005-01

Benteler Steel/Tube GmbH - Postfach 1340 - 33043 Paderborn - Deutschland  
TW Metals  
760 Constitution Drive  
EXTON, PA 19341  
USA

<b>Dokument-Nr.:</b>	41-627747/001/P	<b>Prüf-Nr.:</b>		<b>Blatt:</b>	1 / 3
<b>Document No.:</b>		<b>Inspection No.:</b>		<b>Page:</b>	
<b>No. du document:</b>		<b>No. du certificat:</b>			
<b>Kunden-Bestell-Nr.:</b>	10-9773 TW M49242602	<b>Hersteller:</b>	Warmrohrwerk/Zieherei		
<b>Purchase Order No.:</b>		<b>Manufacturer:</b>	ISO/TS 16949 ISO 9001 TÜV CERT 44111090381-002		
<b>No. de commande du client:</b>		<b>Producteur:</b>	PED 97/23/EC TÜV CERT 07-202-9635 WZ-09060H		
<b>Benteler Auftrags-Nr.:</b>	1557771	<b>Herstellerzeichen:</b>			
<b>Benteler Order No.:</b>		<b>Manufacturer's brand:</b>			
<b>No. de commande Benteler:</b>		<b>Marque du producteur:</b>			
<b>Versandanzahlen-Nr.:</b>	4150235	<b>Stempel des Abnahmebeauftragten:</b>	WA		
<b>Dispatch Note No.:</b>		<b>Stamp of the inspection representative:</b>			
<b>No. d'avis d'expédition:</b>		<b>Poinçon du contrôleur:</b>			
<b>Produkt:</b>	NAHTLOSE STAHLROHRE	<b>Stahlschmelzungsverfahren:</b>	ELEKTROSTAHL		
<b>Product:</b>	SEAMLESS STEEL TUBES	<b>Steelmaking process:</b>	ELECTRIC FURNACE		
<b>Produit:</b>	TUBES D'ACIER SANS SOUDURE	<b>Procédé d'élaboration de l'acier:</b>	FOUR ELECTRIQUE		

*Handwritten signature and date: 14/10/16*

<b>Lieferbedingungen:</b>	AMS-T-6736B Type 1, ASTM-A 519-2006, MIL-T-6736B Type 1
<b>Terms of delivery:</b>	
<b>Conditions de livraison:</b>	
<b>Maße - Toleranzen:</b>	AMS 2253E-83, Aircraft Type, Seamless, Cold Finished
<b>Dimensions-tolérances:</b>	
<b>Stahlsorte:</b>	GRADE 4130, AMS 6360L and AMS 6371J
<b>Steel grade:</b>	
<b>Nuance d'acier:</b>	
<b>Lieferzustand:</b>	N
<b>Delivery condition:</b>	
<b>État de livraison:</b>	
<b>Produktkennzeichnung:</b>	FSD: BENTELER AMS-T-6736 B 1-MIL-T-6736 B 1-4130 N HEAT-NO. CD AQ S DIMENSIONS WA
<b>Product marking:</b>	GERMANY
<b>Marquage du produit:</b>	

<b>AEZ =</b> Azimutbeschriftung, Etching ink marking, Gravure à l'encre [FK = Farbzeichenzeichnung, colour marking, marquage par couleur] [FS = Farbschablonierung, paint stencilling, marquage par peinture] [SD = Farbstrahldrucker, Colour jet printer, imprimante à jet d'encre de c	
<b>[LK =</b> Laserkennzeichnung, Laser marking, Marquage laser] [PKE = Etikettenscheinzeichnung, tag marking, marquage sur étiquette] [PS = Prägestempel, die stamp, marquage par poinçonnage] [TS = Tintenstrahlkennzeichnung, ink jet spray marking, imprimante à jet d'encre	

Pos. Stück	Maße	Länge	Gewicht	Schmelzen-Nr.	Prüfdruck	Rohr-Nr.-Gruppe	Vielfachlängen
Item Number	Dimensions	Length	Weight	Heat No.	Test pressure	Tube number group	Multiple lengths
Poste Nombre	Dimensions	Longueur	Poids	No. de coulée	Pression d'épreuve	Série de no. des tubes	Longueurs multiples
0005 137	0.750" O.D. + 0.049"	3281,17 feet	1208 lbs	563093			
	17 FT - 24 FT						



ABNAHMEPRÜFZEUGNIS EN 10204-3.1  
INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1

Dokument-Nr.: 41-627747/001/P  
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No. du document:

Prüf-Nr.:  
Inspection No.:  
No. du certificat:

Blatt: 2 / 3  
Page:  
Page:

Schmelzenanalyse [%] / Heat analysis [%] / Analyse sur coulée [%]

Pos. Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item Heat No.									
Poste No. de coulée									
0005 563093	0,308	0,240	0,53	0,009	0,001	0,87	0,18	0,09	0,11

Produktanalyse [%] / Product analysis [%] / Analyse sur produit [%]

Pos. Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item Heat No.									
Poste No. de coulée									
0005 563093	0,300	0,250	0,57	0,008	0,001	0,88	0,18	0,10	0,12

Prüfergebnisse / Test results / Résultats des essais

Die Röhre wurden zerstörungsfrei geprüft:  
The tubes are non destructive tested:  
Les tubes ont passé un essai non destructif:

ET-test: acc. to ASTM-A 450; for imperfections: ET-test: ET with rotating pancake coils; according to EN 10246-3; imperfections: Notch depth: 0,30 mm; notch width <= notch depth; notch length min. 2 x transducer width (max. 50 mm)

PASSED

Augensichtkontrolle:

PASSED

Visual inspection:

Materialverwechslungsprüfung:

PASSED

Examen visuel:

Material conformity test:

Maßkontrolle:

PASSED

Verification de la nuance:

Dimensions examination:

Verification des dimensions:

Ergebnisse der mechanischen Prüfung / Results of mechanical testing / Résultats des essais mécaniques

Die Probennahme erfolgte an Vielfachlängen.  
The sampling was carried out on multiple lengths.  
L'échantillonnage était réalisé aux longueurs multiples.

Zugversuch Vollprobe / Tensile test Full section test specimen / Essai de traction Eprouvette a section complete

Pos. Proben-Nr.	Schmelzen-Nr.	Probenabmessung	Streckgrenze	Zugfestigkeit	Dehnung	Einschnürung	Re/Rm
Item Specimen No.	Heat No.	Specimen dimensions	Yield strength	Tensile strength	Elongation	Area reduction	Re/Rm
Poste No. de l'éprouvette No. de coulée		Dimensions de l'éprouv.	Limite élastique	Résistance à la traction	Allongement	Coefficient de striction	Re/Rm
Anforderungen			Rp 0,2 %	Rm	A2		
Requisiments		mm	N/mm <sup>2</sup>	N/mm <sup>2</sup>	%	1. Formula	
Exigences			MIN 517	MIN 655	MIN 12	1. Formule	
0005 000001	563093	19,05 X	1,25	810	887	18	



Benteler Steel/Tube GmbH  
Postfach 13 40  
33043 Paderborn  
Deutschland  
Tel.: +49.5254.81-0 Fax: +49.5254.13666

*Handwritten signature*

**BENTELER**  
Steel/Tube

ABNAHMEPRÜFZEUGNIS EN 10204-3.1  
INSPECTION CERTIFICATE EN 10204-3.1  
CERTIFICAT DE RECEPTION EN 10204-3.1

Dokument-Nr.: 41-627747/001/P  
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No. du certificat:

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Page:  
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Zugversuch Vollprobe / Tensile test Full section test specimen / Essai de traction Eprouvette a section complete

Pos.	Proben-Nr. Specimen No.	Schmelzen-Nr. Heat No.	Probenabmessung Specimen dimensions Dimensions de l'éprouv.	Streckgrenze Yield strength Limite élastique	Zugfestigkeit Tensile strength Résistance à la traction	Dehnung Elongation Allongement	Einschnürung Area reduction Coefficient de striction	Re/Rm
Anforderungen Requirements Exigences				mm Rp 0,2 % N/mm <sup>2</sup> MIN 517	Rm N/mm <sup>2</sup> MIN 655	A2* % MIN 12	1. Formel 1. Formula 1. Formule	Re/Rm
0005	000002	563093	19,05 X	1,25	809	885	18	
0005	000003	563093	19,05 X	1,25	810	884	18	
0005	000004	563093	19,05 X	1,25	816	887	18	
Randentkohlung / Surface decarburization / Décarburation superficielle								
Pos. / Item / Poste: 0005								
acc. MIL-T-6736B / AMS-T-6736B, regulation of decarburization depth								

Vermerk / Remark / Remarque

Pos. / Item / Poste: 0005

Certificate remarks: The steel grade corresponds to MIL-T-6736B, AMS 6360 and AMS 6371J, material free from mercury contamination, FAR BAA: 52.225-1 CANNOT COMPLY, DFARS BAA: 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, Country of origin of the material and heat: Germany; see appendix page 1 of 1

Pos. / Item / Poste: 0005

Macroscopic examination: acc. to ASTM-E 381

Pos. / Item / Poste: 0005

Magnetic particle Inspec.: acc. to AMS 2301 G/2640, on prematerial

Pos. / Item / Poste: 0005

Grain size determination: acc. to ASTM-E 112, Grain size 5 and finer, Longitudinal structure micrography, On prematerial

Verkäufer(in) / Salesman/ woman in charge / Personne chargée : Mr Boeger, Tel.: 05254/81-4321, Fax: 4395  
Paderborn Schloß Neuhaus, 16.02.2011, TEL.: 05254.81-1767 FAX: 05254.81-1752

*Handwritten signature*  
Abnahmebeauftragter  
Inspection representative

Es wird bestätigt, daß die gelieferten Erzeugnisse den techn. Lieferbedingungen des Auftrages entsprechen. Dieses Dokument wurde mittels EDV erstellt und ist ohne Unterschrift rechtsgültig.  
We certify that the supplied products comply with the order specification. This document was prepared by means of electronic data processing and is valid without signature.  
Nous attestons que les produits livrés sont conformes aux stipulations de la commande. Ce document a été établi par traitement électronique de l'information et est valide sans signature.

THOMAS GOLLAN / TEM  
Contrôleur



Benteler Steel/Tube GmbH  
Residenzstraße 1  
33104 Paderborn  
Germany  
Tel.: 49-5254-81-0 Fax: 49-5254-13666

**BENTELER**  
Steel/Tube

Abnahmeprüfzeugnis EN 10204-3.1 / Anhang  
**Inspection Certificate EN 10204.3.1 / appendix**  
Certificat de réception EN 10204-3.1 / appendice

Dokument-Nr.  
**Document No.:**  
No. de document:

41-627747/001/P

Blatt: von  
**Page:** 1 of 1  
Page: de

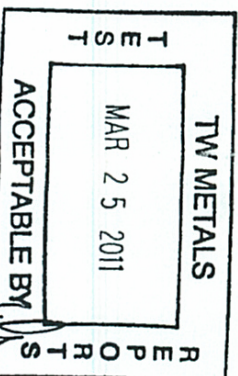
Halbzeuguntersuchung: Stahlsorte **4130** / **Semi finished product examination: grade 4130** / Produit semi-fini: nuance **4130**

Schmelzen-Nr. Heat No. Coulée No.	Position Item Poste	Korngröße Grain size Grosseur de grain (ASTM-E 112)	Härbarkeit (min. Anforderungen) Hardenability (min. requirements) Trempeabilité (exigence min.) (ASTM-A 255)		Magnetpulverprüfung Magnetic particle Inspection Essai à la poudre magnétique (AMS 2301G / 2640)		Makroätzung Macrostructure test Essai de macrostructure (ASTM-E 381)		
		min. 5	J(5/16") min. 35 HRC	J(8/16") min. 28 HRC	F max. 0,34	S max. 0,25	max. S 2	max. R 1	max. C 2
563093	005	9	40	32	0,049	0,034	S 2	R 1	C 2
Decarburization Depth		Outside 0,000 mm Inside 0,050 mm							

Der Stahl ist frei von Quecksilberverunreinigungen. / The steel is free of mercury contamination. / L'acier est libre des contaminations de mercure.

Paderborn Schloß Neuhaus, 16.02.2011  
Tel.: (0)5254-81-1992 Fax: (0)5254-81-1991

Abnahmebeauftragter  
Inspection representative  
Contrôleur  
Thomas Gollan





# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 174130 .750 W.049  
 RECEIVED BY: Sonia P  
 DATE: 14/10/15  
 P/O# 26070 MATERIAL CERT RECEIVED: gls  
 QUANTITY ORDERED: 215.25 200 QUANTITY RECEIVED: 215.25  
 THICKNESS ORDERED: .750 W.049 THICKNESS RECEIVED: 750 W.049  
 SHEET SIZE: \_\_\_\_\_ SHEET SIZE RECEIVED: \_\_\_\_\_

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
INCORRECT FINISH	Y <input checked="" type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/>	
INCORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/>	
INCORRECT MATERIAL	Y <input checked="" type="checkbox"/>	
INCORRECT THICKNESS	Y <input checked="" type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>gls</u>	BY: _____
DATE: <u>14/10/16</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO26070**

Purchase Order Date 10/9/2014

PO Print Date 10/9/2014

Page Number 1 of 2

**Order From :**

VU-TWM001

**Ship To :** DART AEROSPACE LTD

TW METALS  
PO BOX 933014  
ALTANTA, GA 31193-3014  
US

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAXED**

**Contact Name**

**Vendor Phone**

585 768 5600

**Ship To Contact**

**Ship To Phone**

**Ship Via:**

YRC COLLECT

**Ship Acct:**

**Buyer**

**Customer POID**

**Customer Tax #**

**Terms**

**Currency**

**FOB**

Chantal Lavoie

10127-2607

Net 30

USD

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M4130NT0.750W.049	4130 RD Tube .750 x.049W	10/16/2014  Yes 10/16/2014		200.00	\$2.75	\$550.00
	MATERIAL: AISI 4130N SEAMLESS STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361 6362/6373/6374						
	<b>Line Total:</b>						<b>\$550.00</b>
2	71401-45	PROCUREMENT QUALITY CLAUSES	10/16/2014  No 10/16/2014		1.00	\$0.00	\$0.00
	Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality documents						

215.250.  
recu

8014-10-15

8014-10-15

Note:

10/9/2014





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO26070**

Purchase Order Date 10/9/2014

PO Print Date 10/9/2014

Page Number 2 of 2

**Order From :**

TW METALS  
PO BOX 933014  
ALTANTA, GA 31193-3014  
US

VU-TWM001

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone**

585 768 5600

**Ship To Contact**

**Ship To Phone**

**Ship Via:**

**Ship Acct:**

YRC COLLECT

**Buyer**

**Customer POID**

**Customer Tax #**

**Terms**

**Currency**

**FOB**

Chantal Lavoie

10127-2607

Net 30

USD

FCA - (Free Carrier)

**Line Total:** \$0.00

**PO Total:** \$550.00

UCL

**Note:** Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Change Nbr:

1

Change Date:

10/9/2014